Listing of the Claims

Please cancel claims 15-20 without prejudice. Please amend claim 1 and add new claims 21 and 22. This listing of the claims replaces all previous versions of the claims.

(currently amended) A slurry polymerization process in which solid
polyolefin particles are formed in a liquid diluent fluid slurry, said the process
comprising:

introducing a liquid diluent to a loop reaction zone;

introducing an olefin monomer to a loop reaction zone through a plurality of monomer feeds;

introducing a catalyst to the loop reaction zone, the catalyst being capable of polymerizing said the olefin monomer;

introducing an olefin monomer to the loop reaction zone through a plurality of monomer feeds, wherein the olefin monomer is introduced so that the concentration of the olefin monomer within the loop reaction zone is within a desired range;

polymerizing the olefin monomer to form a fluid slurry of containing solid polyolefin particles in the liquid diluent; and

withdrawing a portion of the fluid slurry as an intermediate product at a slurry

withdrawal location in the loop reaction zone where the intermediate

product contains a higher concentration of the solid polyolefin

particles than an average concentration of the solid polyolefin particles

the fluid slurry in the loop reaction zone.

- (currently amended) A process according to claim 1 wherein said the portion
 of the fluid slurry is withdrawn through a plurality of catalyst feeds.
- (currently amended) A process according to claim 1 wherein-said the portion
 of the fluid slurry is withdrawn through a plurality of product take-offs.
- 4. (currently amended) A process according to claim 3 wherein the monomer feeds and the product take-offs are <u>substantially</u> symmetrically arranged around the loop reaction zone.
- 5. (currently amended) A process according to claim 1 wherein the desired a range of concentration of the olefin monomer within the loop reaction zone is 1.05% or smaller.
- (currently amended) A process according to claim 1 wherein said the plurality
 of monomer feeds comprises at least one monomer feed per 800 feet of
 reactor length.
- (currently amended) A process according to claim 1 wherein said the plurality
 of monomer feeds comprises at least one monomer feed per 18,000 gallons of
 reactor volume.

- 8. (currently amended) A process according to claim 1 wherein said the fluid slurry has a plurality of monomer concentrations around the loop reaction zone, and the standard deviation of said the plurality of monomer concentrations is equal to or less than 0.4%.
- 9. (currently amended) A process according to claim 1 further comprising the steps of measuring the concentration of the olefin monomer in the withdrawn portion of the fluid slurry, and adjusting the introduction of the olefin monomer in response to the measured concentration.
- 10. (original) A process according to claim 9, wherein the introduction of the olefin monomer is adjusted so that a different amount of the olefin monomer is fed at one monomer feed than the amount of the olefin monomer feed at another monomer feed.
- 11. (currently amended) A process according to claim 1 wherein said the loop reaction zone has a volume of more than 20,000 gallons.
- 12. (currently amended) A process according to claim 1 wherein said the loop reaction zone has a volume of more than 30,000 gallons.

- (currently amended) A process according to claim 1 wherein said the loop reaction zone has a volume of 35,000 gallons or more.
- 14. (currently amended) A process according to claim 1 wherein each of said the monomer fees is separately controlled.
- 15. (currently amended) A process according to claim 1 wherein said the solid polyolefin particles have a molecular weight distribution that is unimodal.

16-20. (cancelled)

- 21 (new). A process according to claim 1, comprising introducing a liquid diluent to the loop reaction zone.
- 22 (new). A process according to claim 21, wherein the polyolefin particles comprise polyethylene.
- 23 (new). A process according to claim 1, wherein the polyolefin particles comprise polypropylene.

24. (new) A slurry polymerization process in which solid polyolefin particles are formed in a fluid slurry, the process comprising:

introducing an olefin monomer to a loop reaction zone through a plurality of monomer feeds;

introducing a catalyst to the loop reaction zone, the catalyst being capable of polymerizing the olefin monomer;

polymerizing the olefin monomer to form a fluid slurry containing solid polyolefin particles; and

withdrawing a portion of the fluid slurry as an intermediate product through a plurality of product take-offs, wherein the monomer feeds and the product take-offs are arranged substantially symmetrically about the loop reactor.

25 (new). A process according to claim 24, comprising introducing a liquid diluent to the loop reaction zone.

26 (new). A process according to claim 25, wherein the polyolefin particles comprise polyethylene.

27 (new). A process according to claim 24, wherein the polyolefin particles comprise polypropylene.